AMENDMENTS

CLAIMS

1. (currently amended) A method in a data processing system for generating documentation for a source code, the method comprising the steps of:

identifying the language of the source code;

obtaining a template for the language;

parsing the source code;

generating a textual documentation that describes the source code, the textual documentation having portions that correspond to portions of the source code;

generating a diagram including at least one diagram element that visually represents the corresponding portion of the source code; and

correlating the diagram elements to the corresponding portions of the textual documentation by providing hyperlinked references in the diagram that link diagram elements to the corresponding portions of the textual documentation.

2. (cancelled)

3. (previously presented) The method of claim 1, wherein the step of generating a diagram comprises generating a graphics interchange format (GIF) image of each diagram element and generating an image map for an image of the diagram element images.

4. (currently amended) A data processing system for generating documentation for source code in a software project, comprising:

means for identifying the language of the source code;

means for obtaining a template for the language;

means for parsing the source code;

means for generating a textual documentation that describes the source code, the textual documentation having portions that correspond to portions of the source code;

means for generating a diagram including at least one diagram elements that visually represents the corresponding portion of the source code; and

means for correlating the diagram elements to the corresponding portions of the textual documentation by providing hyperlink references in the diagram that link diagram elements to the corresponding portions of the textual documentation.

5. (currently amended) A computer-readable medium containing instructions for controlling a data processing system to perform a method for generating documentation for source code, the method comprising the steps of:

identifying the language of the source code;

obtaining a template for the language;

parsing the source code;

generating a textual documentation that describes the source code, the textual documentation having portions that correspond to portions of the source code;

generating a diagram including at least one diagram element that visually represents the corresponding portion of the source code; and

correlating the diagram elements to the corresponding portions of the textual documentation by providing hyperlink references in the diagram that link diagram elements to the corresponding portions of the textual documentation.

6. (cancelled)

7. (previously presented) The computer readable medium of claim 5, wherein the step of generating a diagram comprises generating a graphics interchange format (GIF) image of each diagram element and generating an image map of the diagram element images.

8. (currently amended) A data processing system, comprising:

a secondary storage device containing a software project, the software project comprising source code;

a memory comprising a software development tool that identifies the language of the source code, obtains a template for the language, parses the source code, and generates a documentation that describes the source code, the documentation including a diagram portion and a text portion and having hypertext markup language (HTML) links between the diagram portion and the text portion; and

a processor for running the software development tool.

9. (cancelled)

10. (cancelled)

11. (cancelled)

12. (previously presented) The method of claim 21, wherein the step of generating textual documentation comprises generating hypertext markup language (HTML) documentation that is displayable by a web browser.

13. (previously presented) The method of claim 21, wherein the step of generating images comprises generating graphics interchange format (GIF) images that are displayable by a web browser.

14. (previously presented) The method of claim 21, wherein the step of mapping the images comprises mapping the images into rectangular regions.

15. (previously presented) The method of claim 1, wherein the documentation is hypertext markup language (HTML) documentation displayable by a web browser.

16. (previously presented) The method of claim1, wherein the links between the diagram portion and the text portion are hypertext markup language (HTML) links.

17. (previously presented) The method of claim 4, wherein the documentation is hypertext markup language (HTML) documentation displayable by a web browser.

18. (previously presented) The data processing system of claim 4, wherein the links between the diagram portion and the text portion are hypertext markup language (HTML) links.

19. (previously presented) The computer-readable medium of claim 5, wherein the documentation is hypertext markup language (HTML) documentation displayable by a web browser.

20. (previously presented) The computer-readable medium of claim 5, wherein the links between the diagram portion and the text portion are hypertext markup language (HTML) links.

21. (currently amended) A method for generating a documentation for source code wherein the documentation includes a diagram portion and a text portion, the method comprising the steps of:

choosing to generate a documentation that describes the source code, the textual documentation having portions that correspond to portions of the source code;

selecting the desired options for the documentation;

identifying the language of the source code;

obtaining a template for the language;

parsing the source code;

generating the textual portion of the source code documentation;

generating images for diagram elements that correspond to portions of the textual documentation;

mapping the images into regions of the image map according to predefined diagram rules and options selected by the user; and

generating hyperlink references from the regions of the image map of the diagram to the textual documentation.